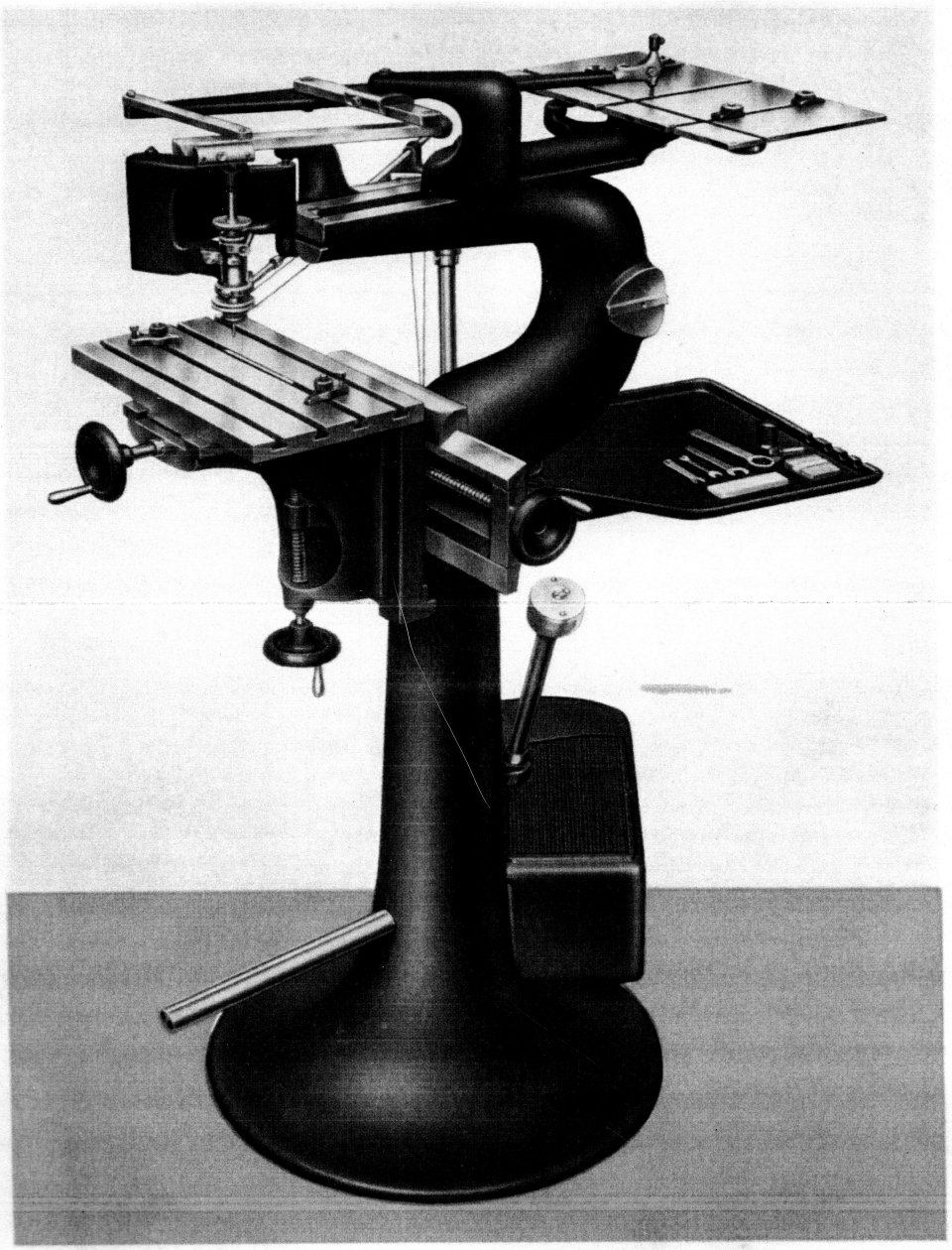
TAYLOR-HOBSON

Oct, 1946

Trade Mark

ENGRAVING MACHINES



MODEL "C.X"
ENGRAVING MACHINE
(as illustrated in colour)
With increased pantograph and table capacity for large plates

Also available:

Model "C"
For small work

Model "C.B"
For small work and plates

Model "C.X.L"
Capacity as "C.X" but with long drop table for bulkier work

Specifications are given on page 4

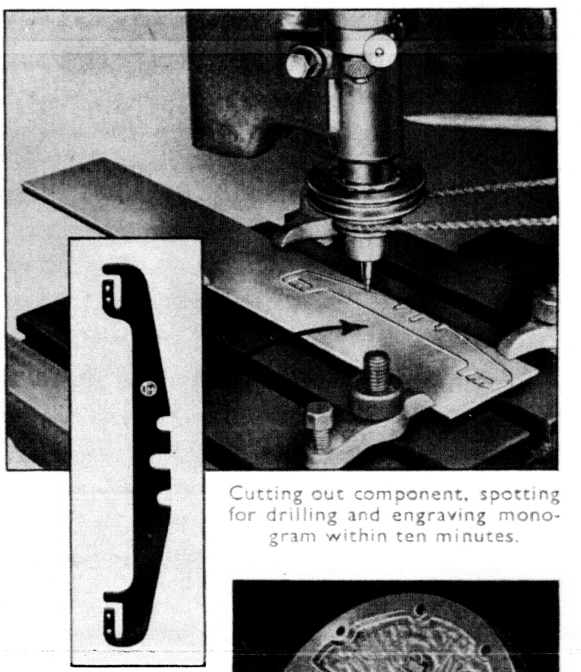
Machines which have engraved a reputation for the Makers, . . . the world over

A "TAYLOR-HOBSON" PRODUCT

TAYLOR-HOBSON

TYPICAL EXAMPLES OF ENGRAVING WHICH CAN BE PRODUCED BY UNSKILLED LABOUR

TAYLOR-HOBSON ENGRAVING MACHINES CAN ALSO BE USED IN NUMEROUS CASES OF MACHINING OBJECTS OF IRREGULAR FORM, WHICH CANNOT BE PRODUCED BY OTHER MACHINES

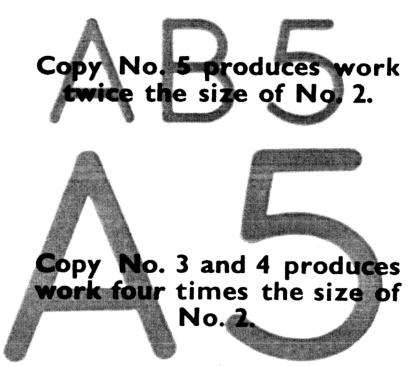


Cutting out component, spotting for drilling and engraving monogram within ten minutes.

Prototype cut from solid, a true reproduction, produced entirely by means of Engraving Machine, prior to having die-casting made.

STANDARD COPIES Carried in Stock

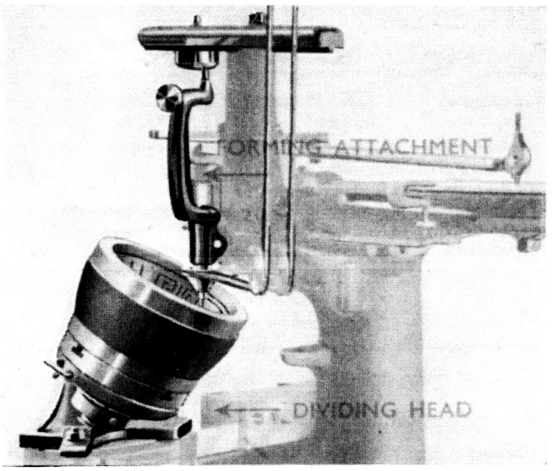
Copy No.	Largest engraving using 3 : 1 reduction	Smallest, using 16 : 1 reduction
2A	ABCDE 5	ABCDE 5
2L	abcde	abcde
2C	ABCDE 5	ABCDE 5



Copy No. 5 produces work twice the size of No. 2.

Copy No. 3 and 4 produces work four times the size of No. 2.

ACCESSORIES

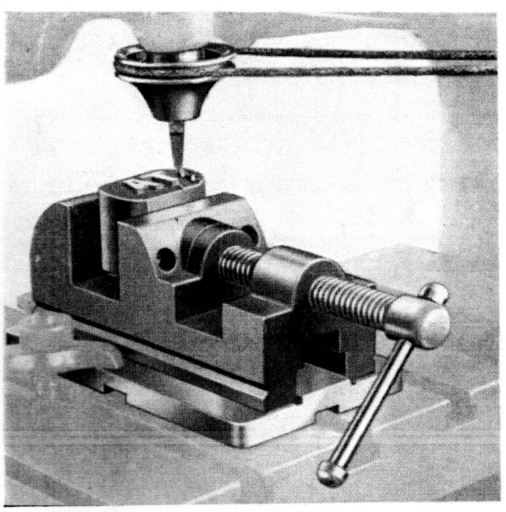


THE DIVIDING HEAD

The Dividing Head is used to hold and rotate circular work such as discs, cones, cylinders, presenting successive portions to the action of the engraving cutter. It is here shown in use with the Forming Attachment, the pattern in a mould for a glass bowl being engraved. Fits the "C", "C.B." or "C.X." Engraving Machines. The Dividing Head can also be adapted for innumerable uses in workshops, not only on the Engraving Machine, but on many other types of machines such as lathes, milling or drilling machines, where accurate locating and specific angles are required. An invaluable and versatile accessory.

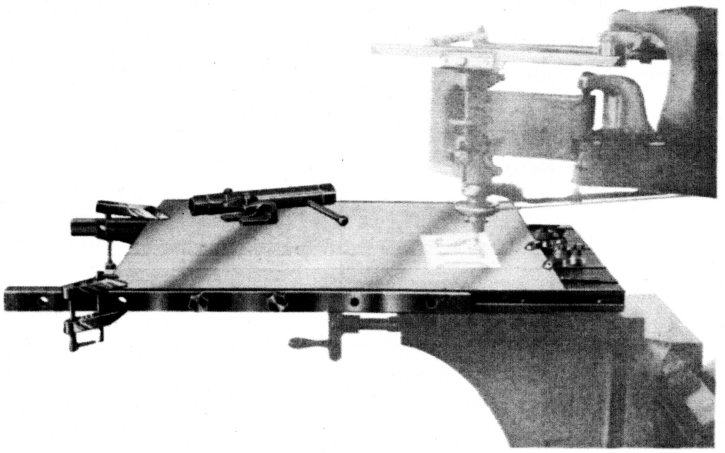
THE FORMING ATTACHMENT

The Forming Attachment is used for guiding the cutter in conformity with curved work-surfaces, the tracer following the contours of the model, and allowing the cutter to rise and fall as required. The attachment illustrated is for "C" and "C.B." machines only. A similar attachment is available for "C.X." Engraving Machines.



THE MACHINE VICE

The Machine Vice for holding objects to be engraved, is clamped to the Table and may be squared either parallel with, or at right angles to the slots in the Table. The hardened steel jaws are 2″ wide, 1¼″ deep, and open to 2″. A spare jaw with V grooves to hold cylindrical work on end or side is provided with each Vice (Factored).



THE EXTENSION TABLE

The size of the worktable of the "C" and "C.B." Engraving Machines is 8″ x 8″ (20 x 20 cms.), and the "C.X." and "C.X.L.", 15″ x 8″ (38 x 20 cms.) but there are occasions when the Extension Table is essential. It is here illustrated, and will take plates of indefinite length, holding plates up to 18″ wide, by both edges, whilst plates up to 36″ wide may be engraved at all parts by reversing them.

CUTTER GRINDER Type "D"

The standard equipment of type "C," and "C.B." Engraving Machines include an attachment on which cutters may be sharpened on the machine itself, whilst an attachment is available for the "C.X." machine. A more efficient and practically foolproof means of sharpening cutters is provided by the Cutter Grinder Type "D," as illustrated. It is sturdily built for bench mounting; moving parts securely shielded from abrasive dust. Skilled labour is not required, and the engraver can grind and form his own cutters to the particular shape required, obtaining precision results, whilst leaving the Engraving Machine setting undisturbed. Feed screw graduated to .001″. Setting gauge and selection of locating pieces ensure precise clearance angle. *Remember the secret of first-class engraving demands accurately sharpened cutters.*

For complete range of Accessories, see List No. TH. 1—11.

SPECIFICATIONS OF TAYLOR-HOBSON C., C.B., C.X. & C.X.L. ENGRAVING MACHINES

	"C" Machine Code 110/0	"CB" Machine Code 110/1	"CX" Machine Code 110/215	"CXL" Machine Code 110/283
Pantograph Reductions	Variable between 3 : 1 and 16 : 1	Variable between 3 : 1 and 16 : 1	Variable between 2 : 1 and 16 : 1	Variable between 2 : 1 and 16 : 1
	Special Pantograph adjustable for equal copying and thereabouts are available. For C.X. and C.X.L machines a pantograph giving 1 : 1 and 1 : 6 ratios can be supplied.			
Size of worktable	ins. 8×8 cms. 20×20	ins. 8×8 cms. 20×20	ins. 15×8 cms. 38×20	ins. 15×8 cms. 38×20
	An extension table can be fitted to any machine			
Movements of Worktable	ins. cms.	ins. cms.	ins. cms.	ins. cms.
Along Machine Frame	10 25	14 35·5	14 35·5	14 35·5
Cross movement	6 15	6 15	6 15	6 15
Vertical movement and maximum distance beneath cutter	6 15	6 15	6 15	14 35·5
Horizontal distance between Cutter and Frame with style at zero	ins. cms. 7⅜ 18·75	ins. cms. 15¼ 38·75 (To bowed part)	ins. cms. 16½ 42 (To bowed part)	ins. cms. 16½ 42 (To bowed part)
Vertical distance between Cutter and Top of Saddle on Frame Slide	ins. cms. 2¾ 7	ins. cms. 2¾ 7	ins. cms. 3½ 9	ins. cms. 3½ 9
Cutter Spindle normally fitted	Type "H" Ball Bearing Code 110/374	Type "H" Ball Bearing Code 110/374	Type "H" Ball Bearing Code 110/374	Type "H" Ball Bearing Code 110/374
Type of Cutter Spindle Drives available ...	Compact Motor Drive (charged as extras) Ball Bearing Power Countershaft Over-head Motor.		Pedestal Motor Drive (included with machine). Motor with pulley and switch charged as extras.	
Suitable Copy Holders (charged as extras)	Nos. 0, 2, 3, 4, 5 and Circular Copy Holder.		Nos. 0, 2X, 3, 4, 5X and Circular Copy Holder.	
Cutter Grinding Attachment	~~Included with machine~~ (Abrasive Wheel for use in Cutter Spindle)		Charged as an extra (Improved type built on to machine frame or as a separate machine) See special pamphlet.	
Overall height of Machine	ft. ins. cms. 4 7 140	ft. ins. cms. 4 7 140	ft. ins. cms. 4 7 140	ft. ins. cms. 4 7 140
Floor Space occupied	feet cms. 3×2 91×61	feet cms. 3×2 91×61	feet cms. 3½×3 107×91	feet cms. 3½×3 107×91
Approximate net weight of Machine (not including pedestal, motors, countershaft, copy holder nor other accessories)* ...	lbs. kgs. 170 77	lbs. kgs. 200 91	lbs. kgs. 410 186	lbs. kgs. 430 195
Boxed for shipment	260 118	320 145	680 308	700 318
Approximate net weight of Pedestal ...	95 43	95 43	*"CX" and "CXL" Machines are shipped assembled on Pedestals included in the above weights.	
Boxed for shipment	190 86	190 86		
Approximate Shipping Dimensions of Machine and Pedestal	cu. ft. cu. metres 28½ ·8	cu. ft. cu. metres 33 ·93	cu. ft. cu. metres 27½ ·78	cu. ft. cu. metres 27½ ·78
	Includes both boxes.			

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